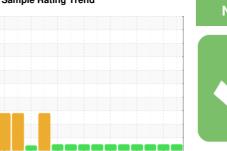


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **913181** Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

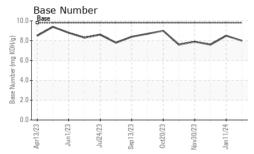
Fluid Condition

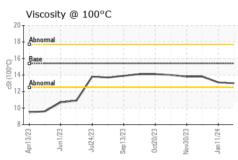
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFOR	AOITAMS	method	limit/base	current	history1	history2
Sample Number	tivii (1101)	Client Info	mmesacc	GFL0099025	GFL0098969	GFL0098997
Sample Date		Client Info		09 Feb 2024	11 Jan 2024	20 Dec 2023
Machine Age	hrs	Client Info		2014	1844	1607
Oil Age	hrs	Client Info		1311	1311	1607
Oil Changed	1115	Client Info		N/A	N/A	N/A
Sample Status		Client inio		NORMAL	NORMAL	NORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method	>0.2	NEG	NEG	NEG
WEAR METAI	S	method	limit/base	current	history1	history2
lron	ppm	ASTM D5185m	>120	15	8	22
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	1	<1	4
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	1	2	2
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	<1	<1	1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	<1	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	53	53	57
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	797	966	924
Calcium	ppm	ASTM D5185m	1070	1123	1331	1027
Phosphorus	ppm	ASTM D5185m	1150	988	1008	1047
Zinc	ppm	ASTM D5185m	1270	1149	1214	1268
Sulfur	ppm	ASTM D5185m	2060	2843	3223	3001
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	3	4
Sodium	ppm	ASTM D5185m		1	0	2
D-4!	ppm	ASTM D5185m	>20	1	0	2
Potassium						
INFRA-RED		method	limit/base	current	history1	history2
INFRA-RED	%	method *ASTM D7844	limit/base	current 0.6	history1 0.3	history2 0.9
Potassium INFRA-RED Soot % Nitration	% Abs/cm		>4			,
INFRA-RED Soot %		*ASTM D7844	>4 >20	0.6	0.3	0.9
INFRA-RED Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>4 >20	0.6 7.4	0.3 5.8	0.9 8.6 20.0
INFRA-RED Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>4 >20 >30	0.6 7.4 18.6	0.3 5.8 17.5	0.9



OIL ANALYSIS REPORT

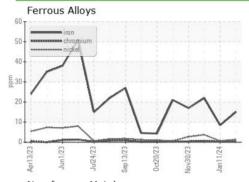


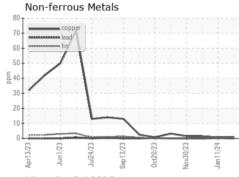


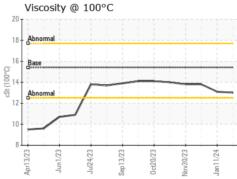
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

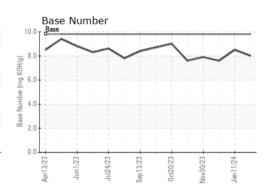
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.0	13.1	13.8	

GRAPHS













Certificate L2367

Laboratory Sample No.

Test Package : FLEET

: GFL0099025 Lab Number : 06094897 Unique Number : 10887750

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

Tested Diagnosed

: 21 Feb 2024 : 21 Feb 2024 - Wes Davis

: 20 Feb 2024

Submitted By: GFL084,GFL842,GFL844,GFL846 - ROBERT THIBAULT

GFL Environmental - 084 - Clarksville 699 Jack Miller Boulevard

Clarksville, TN US 37042

Contact: ROBERT THIBAULT

robert.thibault@gflenv.com T: (931)552-7276

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

F: (931)572-9674

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)